

I claim:

1. A multilayer, oriented thermoplastic composite for use as a register or receipt tape comprising:
  - a film having a first outer film surface and a second outer film surface, the film comprising a core layer, and at least a first outer layer having an outermost surface comprising the first outer film surface;
  - the first outer layer comprising a non-migratory anti-static additive; and
  - a heat sensitive, thermal image coating on the second outer film surface;
  - wherein at least one outer layer comprises a pigment and wherein the composite has a 1% secant modulus in the machine direction of at least about 150,000 psi.
2. A composite as set forth in claim 1 wherein the second outer film surface comprises an outermost surface of the core layer opposite to the first outer layer.
3. A composite as set forth in claim 1 further comprising a second outer layer having an outermost surface and wherein the outermost surface of the second outer layer comprises the second outer film surface bearing the heat sensitive, thermal image coating.
4. A composite as set forth in claim 1 having a thickness of from about 0.35 mils to about 1.5 mils.
5. A composite as set forth in claim 4 having a thickness of from about 0.50 mils to about 0.75 mils.
6. A composite as set forth in claim 3 wherein the core layer further comprises a cavitation promoting additive.
7. A composite as set forth in claim 1 having a 1% secant modulus in the machine direction of at least about 200,000 psi.

8. A composite as set forth in claim 1 wherein at least one of the layers comprises a polymer selected from the group consisting essentially of polyethylene, polypropylene, linear low density polyethylene, polystyrene and polyester.
9. A composite as set forth in claim 1 wherein the film is biaxially oriented.
10. A composite as set forth in claim 1 wherein the film is uniaxially oriented in the machine direction.
11. A composite as set forth in claim 1 wherein the film is essentially non-heat shrinkable.
12. An oriented thermoplastic composite for use as a register or receipt tape comprising:
  - a film having a first outer film surface and a second outer film surface, the film comprising at least a core layer;
  - an anti-static coating on the first outer film surface; and
  - a heat sensitive, thermal image coating on the second outer film surface;
  - wherein at least one composite component comprises a pigment and
  - wherein the composite has a 1% secant modulus in the machine direction of at least 150,000 psi.
13. A composite as set forth in claim 12 further comprising an outer layer having an outermost surface comprising the first outer film surface bearing the anti-static coating.
14. A composite as set forth in claim 12 further comprising an outer layer having an outermost surface comprising the second outer film surface bearing the heat sensitive, thermal image coating.

15. A composite as set forth in claim 12 having a thickness of from about 0.35 mils to about 1.5 mils.
16. A composite as set forth in claim 15 having a thickness of from about 0.50 mils to about 0.75 mils.
17. A composite as set forth in claim 12 having a 1% secant modulus in the machine direction of at least about 200,000 psi.
18. A composite as set forth in claim 12 wherein at least one layer comprises a polymer selected from the group consisting essentially of polyethylene, polypropylene, linear low density polyethylene, polystyrene and polyester.
19. A composite as set forth in claim 12 wherein the film is biaxially oriented.
20. A composite as set forth in claim 12 wherein the film is uniaxially oriented in the machine direction.
21. A composite as set forth in claim 12 wherein the film is essentially non-heat shrinkable.
22. A method for making a thermoplastic composite suitable for use as a register or receipt tape, comprising the steps of:
  - a. coextruding a multilayer film having a first outer film surface and a second outer film surface, the film comprising a core layer, and at least a first outer layer having an outermost surface comprising the first outer film surface, the first outer layer comprising a non-migratory anti-static additive, and at least one outer layer comprising a pigment;
  - b. orienting the film;
  - c. annealing the film; and

- d. applying a heat sensitive, thermal image layer to the second outer film surface.
23. The method set forth in claim 22 wherein the step of orienting comprises biaxially orienting.
24. The method set forth in claim 23 wherein the product of the machine direction and transverse direction stretch ratios is from about 2.0X to about 50X.
25. The method set forth in claim 22 wherein the step of orienting comprises uniaxially orienting in the machine direction.
26. The method set forth in claim 25 wherein the machine direction stretch ratio is in the range of from about 1.5X to about 10.0X.
27. The method set forth in claim 22 wherein the step of coextruding comprises a blown film process.
28. The method set forth in claim 22 wherein the step of coextruding comprises a cast film process.